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**From:** Hogan, Karen [Hogan.Karen@epa.gov]  
**Sent:** 9/2/2016 6:06:20 PM  
**To:** Spassova, Maria [Spassova.Maria@epa.gov]; Farrar, David [Farrar.David@epa.gov]; Fox, John [Fox.John@epa.gov]  
**Subject:** RE: BaP neurotoxic effects - design of rodent study  
**Attachments:** BaP Noncancer d-r app.docx

If there are issues like this one needing correction, and you have the time in addition to addressing the more generic questions below, that would be great.

Thanks,  
Karen

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**From:** Spassova, Maria  
**Sent:** Friday, September 02, 2016 1:09 PM  
**To:** Hogan, Karen <Hogan.Karen@epa.gov>; Farrar, David <Farrar.David@epa.gov>; Fox, John <Fox.John@epa.gov>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

OK, would you send after that the entire analysis for review of other possible issues? Or maybe send it as it is now.

Maria A. Spassova, Ph.D.  
Mathematical Statistician  
National Center for Environmental Assessment  
Office of Research and Development  
U.S. EPA (Mail Code 8623P)  
1200 Pennsylvania Avenue NW  
Washington, DC  
Office: S-11335  
Phone: 703-347-8824  
AWL: Ex. 6 Personal Privacy (PP)

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**From:** Hogan, Karen  
**Sent:** Friday, September 02, 2016 1:06 PM  
**To:** Spassova, Maria <Spassova.Maria@epa.gov>; Farrar, David <Farrar.David@epa.gov>; Fox, John <Fox.John@epa.gov>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

Maria, Thank you for catching that.

**Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Karen

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**From:** Spassova, Maria  
**Sent:** Friday, September 02, 2016 12:48 PM  
**To:** Hogan, Karen <Hogan.Karen@epa.gov>; Farrar, David <Farrar.David@epa.gov>; Fox, John <Fox.John@epa.gov>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

**Ex. 5 Deliberative Process (DP)**

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**From:** Hogan, Karen  
**Sent:** Friday, September 02, 2016 12:40 PM  
**To:** Spassova, Maria <[Spassova.Maria@epa.gov](mailto:Spassova.Maria@epa.gov)>; Farrar, David <[Farrar.David@epa.gov](mailto:Farrar.David@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

Maria, Please describe this issue a bit more? I'm not familiar with the previous situation.  
Karen

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**From:** Spassova, Maria  
**Sent:** Friday, September 02, 2016 12:35 PM  
**To:** Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>; Farrar, David <[Farrar.David@epa.gov](mailto:Farrar.David@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

Karen,

Would you send us the entire related analysis that is included in the assessment and the appendix.

Ex. 5 Deliberative Process (DP)

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Maria A. Spassova, Ph.D.  
Mathematical Statistician  
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Office of Research and Development  
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1200 Pennsylvania Avenue NW  
Washington, DC  
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AWL: Ex. 6 Personal Privacy (PP)

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**From:** Hogan, Karen  
**Sent:** Friday, September 02, 2016 11:26 AM  
**To:** Farrar, David <[Farrar.David@epa.gov](mailto:Farrar.David@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>; Spassova, Maria <[Spassova.Maria@epa.gov](mailto:Spassova.Maria@epa.gov)>  
**Subject:** RE: BaP neurotoxic effects - design of rodent study

Hi David and Maria,  
To save you time, I should have been clearer about the stage the BaP assessment is in. The upcoming ERC review specifically focuses on whether the revisions adequately address the final SAB comments (April 2016). The only other changes under consideration are those that improve transparency, clarity, etc., or that correct any remaining clear errors.

# Ex. 5 Deliberative Process (DP)

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Glad to provide further clarification if needed. I don't mean to leave anything out, but also don't want to bog things down with information not relevant to these issues. Thanks for your help!  
Karen

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**From:** Farrar, David

**Sent:** Thursday, September 01, 2016 10:34 AM

**To:** Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>; Spassova, Maria <[Spassova.Maria@epa.gov](mailto:Spassova.Maria@epa.gov)>

**Subject:** RE: BaP neurotoxic effects - design of rodent study

You're welcome. Jay Zhao has apparently heard of the interim random reassignment of dams to litters, although it is apparently not common.

I didn't really see these things as necessarily bad from a design viewpoint.

**Ex. 5 Deliberative Process (DP)**

## Ex. 5 Deliberative Process (DP)

## Ex. 5 Deliberative Process (DP)

David

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**From:** Hogan, Karen

**Sent:** Wednesday, August 31, 2016 4:20 PM

**To:** Farrar, David <[Farrar.David@epa.gov](mailto:Farrar.David@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>; Spassova, Maria <[Spassova.Maria@epa.gov](mailto:Spassova.Maria@epa.gov)>

**Subject:** RE: BaP neurotoxic effects - design of rodent study

Hi David,

Thanks for these observations. The SAB also mentioned these and other points and suggested that they decreased confidence in the study. Sorry not to have mentioned these issues earlier.

**Ex. 5 Deliberative Process (DP)**

**Ex. 5 Deliberative Process (DP)**

**Ex. 5 Deliberative Process (DP)**

Please let me know if

my questions were not clear enough.

Thanks,

Karen

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**From:** Farrar, David

**Sent:** Wednesday, August 31, 2016 3:34 PM

**To:** Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>; Fox, John <[Fox.John@epa.gov](mailto:Fox.John@epa.gov)>; Spassova, Maria <[Spassova.Maria@epa.gov](mailto:Spassova.Maria@epa.gov)>

**Subject:** BaP neurotoxic effects - design of rodent study

Hi,

This may not be very helpful to Karen for purposes of the assessment. As I mentioned, some aspects of the design seem interesting.

**Ex. 5 Deliberative Process (DP)**

David